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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/737,910	12/15/2000	Mark B. Olson		2438
7:	590 01/21/2003			
James N. Videbeck Patnaude & Videbeck I S 376 Summit Avenue Court C Oakbrook Terrace, IL 60181			EXAMINER	
			LU, JIPING	
			ART UNIT	PAPER NUMBER
	,		3749	
			DATE MAILED: 01/21/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No	Applicant(s)	4			
,	09/737,910	OLSON, MARK B.	•			
Office Action Summary	Examiner	Art Unit				
	Jiping Lu	3749				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence addres	is			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be t within the statutory minimum of thirty (30) da fill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDON	imely filed  ays will be considered timely.  m the mailing date of this commu  IED (35 U.S.C. § 133).	nication.			
1) Responsive to communication(s) filed on 17 J	<u>anuary 2002</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under a Disposition of Claims			ents is			
4) Claim(s) 1-19 is/are pending in the application	•					
4a) Of the above claim(s) 18 and 19 is/are with	drawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine						
10)☐ The drawing(s) filed on is/are: a)☐ accep	ted or b)  objected to by the Ex	aminer.				
Applicant may not request that any objection to the						
11)☐ The proposed drawing correction filed on		roved by the Examiner.				
If approved, corrected drawings are required in rep						
12) ☐ The oath or declaration is objected to by the Ex-	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the prior</li> <li>application from the International Bu</li> <li>* See the attached detailed Office action for a list</li> </ul>	reau (PCT Rule 17.2(a)).		ge			
14) ☐ Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119	e) (to a provisional ap	plication).			
a)  The translation of the foreign language pro	visional application has been re	eceived.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-15				
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office Ac	ction Summary	Part of Pa	per No. 5			

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### **DETAILED ACTION**

### Election/Restrictions

1. Applicant's election with traverse of Group I, claims 1-17 in Paper No. 4 is acknowledged. The traversal is on the ground(s) that the claimed box-like structure with a circular inlet is included in claims 11 and 15. This is not found persuasive because claims 1, 13 17 are evidence claims. Therefore, the restriction is proper. With regard to the election of species requirement, it is noted that the claims 1- 17 are readable to the elected species of Fig. 7. Therefore, claims 1- 17 are examined.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 18-19 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 4.

### Information Disclosure Statement

The information disclosure statement filed 12/15/2000 fails to comply with 37 CFR 1.98(a)(1), which requires a list of all patents, publications, or other information submitted for consideration by the Office. It has been placed in the application file, but the information referred to therein has not been considered. The examiner has not considered the prior art patents for patentability determination of present claims.

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### Specification

4. The disclosure is objected to because of the following informalities: page 5, line 8, please change the reference numeral for the filter core from "15" to --25-- (see Fig. 2).

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1, 3-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Robertson, III (U. S. Pat. 4,955,997).

Robertson, III shows a clean air filter and delivery apparatus comprising an air return means 1, an air filter means 2, a blower 13, an air supply means 4, a flexible duct 3 and a second filter cartridge 7 which are arranged same as claimed.

### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 2, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robertson, III (U. S. Pat. 4,955,997) in view of Schlor (U. S. Pat. 6,164,457).

The clean air filter and delivery apparatus as above includes all that is recited in claims 2,7 except for a first filter cartridge having a frame including upper and lower surfaces and an elongate sheet of filter media extending substantially perpendicularly to and between the upper and lower surfaces. Schlor teaches a filter cartridge with upper and lower surfaces and elongate sheet of filter 13 same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the filter cartridge 21 of Schlor for the filter cartridge of Robertson, III in order to improve the air cleaning efficiency.

9. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robertson, III
(U. S. Pat. 4,955,997) in view of Wolfert (U. S. Pat. 4,762,053)

The clean air filter and delivery apparatus as above includes all that is recited in claims 5-6 except for the mesh grill for the air flow through the filter cartridge. Wolfert teaches a mesh grill 64 for the air flow through the filter cartridge same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the clean air filter and delivery apparatus of Robertson, III with a mesh grill as taught by Wolfert in order to improve the air cleaning efficiency.

10. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robertson, III (U. S. Pat. 4,955,997) in view of Shanks et al. (U. S. Pat. 6,328,776).

The clean air filter and delivery apparatus as above includes all that is recited in claims 8-10 except for the flexible duct positioned between the air filter means and the blower. Shanks et al. teaches an air purifying system for filtering and re-circulating room air comprising flexible

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duct 22 positioned between air filter means 14A, 14B and blower 12 same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the clean air filter and delivery apparatus of Robertson ,III with a flexible duct between air filter means and the blower as taught by Shanks et al. in order to improve the air cleaning efficiency.

11. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robertson, III (U. S. Pat. 4,955,997) in view of Greenleaf, Sr. (U. S. Pat. 5,417,729).

The clean air filter and delivery apparatus as above includes all that is recited in claims 11-12 except for the air tight hollow box including a circular inlet and a circular outlet having a first filter cartridge therein. Greenleaf, Sr. teaches an air cleaning system having an air tight box 12 with circular inlet and outlet 14, 16 and filter means 59, 69 same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the clean air filter and delivery apparatus of Robertson, III with an air tight box for filter cartridge as taught by Greenleaf, Sr. in order to improve the air cleaning efficiency.

12. Claims 13-14 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robertson, III (U. S. Pat. 4,955,997) in view of Schlor (U. S. Pat. 6,164,457) and Shanks et al. (U. S. Pat. 6,328,776).

The clean air filter and delivery apparatus as above includes all that is recited in claims 2,7 except for a first filter cartridge having a frame including upper and lower surfaces and an elongate sheet of filter media extending substantially perpendicularly to and between the upper and lower surfaces and the flexible duct positioned between the air return means and the blower. Schlor teaches a filter cartridge with upper and lower surfaces and elongate sheet of filter 13

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same as claimed. Shanks et al. teaches an air purifying system for filtering and re-circulating room air comprising flexible duct 22 positioned between air return means 14A, 14B and blower 12 same as claimed Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the filter cartridge 21 of Schlor for the filter cartridge of Robertson, III and to provide the clean air filter and delivery apparatus of Robertson, III with a flexible duct between air return means and the blower as taught by Shanks et al. in order to improve the air cleaning efficiency. With regard to the claimed rigid spiral ductwork in claim 17, it would been an obvious matter of design choice to design the ductwork of Robertson, III with any desired material in order to obtain the optimum result since applicant has not disclosed that the claimed rigid spiral ductwork solves any stated problem in a new or unexpected way or is for any particular purpose which is unobvious to one of ordinary skill and it appear that the claimed feature does not distinguish the invention over similar features in the prior art since, the ductwork of Robertson, III will perform the invention as claimed by the applicant with the ductwork having any kind of the material.

13. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Robertson, III (U. S. Pat. 4,955,997) in view of Schlor (U. S. Pat. 6,164,457) and Shanks et al. (U. S. Pat. 6,328,776) as applied to claim 13 above, and further in view of Greenleaf, Sr. (U. S. Pat. 5,417,729).

The clean air filter and delivery apparatus of Robertson, III as modified by Schlor and shanks et al. as above includes all that is recited in claim 15 except for the air tight hollow box including a circular inlet and a circular outlet having a first filter cartridge therein. Greenleaf, Sr. teaches an air cleaning system having an air tight box 12 with circular inlet and outlet 14, 16 and

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filter means 59, 69 same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further provide the clean air filter and delivery apparatus of Robertson, III with an air tight box for filter cartridge as taught by Greenleaf, Sr. in order to improve the air cleaning efficiency.

14. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Robertson, III (U. S. Pat. 4,955,997) in view of Schlor (U. S. Pat. 6,164,457) and Shanks et al. (U. S. Pat. 6,328,776) as applied to claim 13 above, and further in view of Wolfert (U. S. Pat. 4,762,053)

The clean air filter and delivery apparatus of Robertson, III as modified by Schlor and shanks et al. as above includes all that is recited in claims 16 except for the mesh grill for the air flow through the filter cartridge. Wolfert teaches a mesh grill 64 for the air flow through the filter cartridge same as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the clean air filter and delivery apparatus of Robertson, III with a mesh grill as taught by Wolfert in order to improve the air cleaning efficiency. With regard to the claimed number of fans and air supplies, it would have been an obvious matter of design choice to design the fans and air supplies with any desired number in order to obtain optimum air cleaning result since applicant has not disclosed that the claimed number of fans and air supplies solves any stated problem in a new or unexpected way or is for any particular purpose which is unobvious to one of ordinary skill in the art.

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### Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tanaka et al. (U. S. Pat. 5,151,063) shows an air conditioning distribution system.

Dralle (U. S. Pat. 5,332,409) shows an air filtration system.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jiping Lu whose telephone number is 703-308-2354. The examiner can normally be reached on Monday-Friday, 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on 703 308-1935. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308-7764 for regular communications and 703 308-7764 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-1113.

Jiping Lu

Primary Examiner
Art Unit 3749

J.L.

December 15, 2002